



Consulting and Training | Reach New Heights

**Course Name**

# Certified Quality Management Professional

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**Sector Name**

Information Technology

**Document Type**

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## Certified Quality Management Professional

### Course Introduction

Ensuring software quality is critical for delivering reliable and high-performing applications. This course equips participants with professional knowledge in software testing principles, quality assurance practices, and systematic approaches to manage and improve software quality. Participants will learn how to design, execute, and evaluate testing strategies to ensure software meets business, functional, and technical requirements.

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### Target Audience

- ✓ Quality Managers and Quality Assurance Professionals
- ✓ Quality Control Supervisors and Inspectors
- ✓ Operations and Production Managers

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### Learning Objectives

- ✓ Understand the principles and methodologies of software testing.
- ✓ Design and implement effective test plans and strategies.
- ✓ Apply quality management standards to software testing processes.
- ✓ Evaluate software quality through systematic testing and metrics
- ✓ Identify defects and ensure timely resolution to improve software reliability.
- ✓ Support continuous improvement in software development and delivery.

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### Course Outline

#### ✓ DAY 01

##### **Foundations of Software Quality and Testing Principles**

- ✓ Introduction to software quality management
- ✓ Key concepts in software testing: objectives, scope, and types
- ✓ Testing life cycle and processes
- ✓ Quality standards and compliance (ISO, CMMI, etc.)
- ✓ Roles and responsibilities in quality assurance

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### Course Outline

#### ✓ Day 02

##### **Test Planning and Strategy Development**

- ✓ Designing effective test plans and test cases
- ✓ Test coverage, prioritization, and risk assessment
- ✓ Functional vs. non-functional testing approaches
- ✓ Selection of appropriate testing techniques
- ✓ Aligning testing strategy with project goals

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### Course Outline

#### ✓ Day 03

##### **Software Testing Techniques and Tools**

- ✓ Manual testing methodologies and best practices
- ✓ Automated testing principles and tools overview
- ✓ Regression, integration, system, and user acceptance testing
- ✓ Performance, security, and usability testing
- ✓ Test data management and environment setup

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### Course Outline

#### ✓ Day 04

##### **Defect Management and Quality Metrics**

- ✓ Identifying, documenting, and prioritizing defects
- ✓ Defect lifecycle and tracking mechanisms
- ✓ Key quality metrics and KPIs (defect density, test coverage, MTTR)
- ✓ Root cause analysis and corrective actions
- ✓ Reporting quality metrics to stakeholders

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### Course Outline

#### ✓ Day 05

##### **Continuous Improvement and Advanced Testing Concepts**

- ✓ Continuous testing and integration in agile/DevOps environments
- ✓ Advanced testing approaches: exploratory, AI-assisted, and risk-based testing
- ✓ Process improvement frameworks for software quality
- ✓ Auditing, compliance, and quality certification
- ✓ Building a roadmap for professional quality management in software projects

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### Confirmed Sessions

| FROM           | TO            | DURATION | FEES       | LOCATION         |
|----------------|---------------|----------|------------|------------------|
| June 7, 2026   | June 11, 2026 | 5 days   | 4250.00 \$ | KSA , Riyadh     |
| Nov. 15, 2026  | Nov. 19, 2026 | 5 days   | 2150.00 \$ | Virtual , Online |
| Aug. 31, 2026  | Sept. 4, 2026 | 5 days   | 4250.00 \$ | UAE , Dubai      |
| March 29, 2027 | April 2, 2027 | 5 days   | 4950.00 \$ | Greece , Athens  |

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